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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,852	02/23/2004	Takahiro Goto	Q79959	5491
23373 SUGHRUE MI	7590 04/30/200 ON. PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			GILLIAM, BARBARA LEE	
	SUITE 800 WASHINGTON, DC 20037			PAPER NUMBER
			1752	
			MAIL DATE	DELIVERY MODE
			04/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/782,852	GOTO, TAKAHIRO		
		Examiner	Art Unit		
		Barbara L. Gilliam	1752		
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet wi	th the correspondence address		
WHIO - External after - If No - Faile Any	HORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Doensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 136(a). In no event, however, may a re- will apply and will expire SIX (6) MON e, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. IANDONED (35 U.S.C. § 133).		
Status					
1)🛛	Responsive to communication(s) filed on 2/16/	<u>/2007, 1/23/2007</u> .			
2a)[This action is FINAL . 2b)⊠ This action is non-final.				
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.		
Disposit	tion of Claims				
	Claim(s) <u>1,4,5,7-10,13,14 and 16-21</u> is/are per 4a) Of the above claim(s) is/are withdraw	•			
·	Claim(s) is/are allowed.				
	Claim(s) <u>1,4,5,7-10,13,14 and 16-21</u> is/are rejection(s) is/are objected to.	ected.			
·	Claim(s) are subject to restriction and/o	or election requirement			
	•	r olosion roquiloment.			
	tion Papers	\ .			
	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc		by the Evaminer		
الـــارە،	Applicant may not request that any objection to the	· ·	•		
	Replacement drawing sheet(s) including the correct		` '		
11)	The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·	• •		
Priority :	under 35 U.S.C. § 119				
	Acknowledgment is made of a claim for foreign ⊠ All b) □ Some * c) □ None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).		
a)	All b) Some * c) None of:1. Certified copies of the priority document	s have been received			
	Certified copies of the priority document Certified copies of the priority document		onlication No		
	3. Copies of the certified copies of the prior	•	· •		
	application from the International Bureau	·	· ·		
* (See the attached detailed Office action for a list	of the certified copies not	received.		
Attachmer	• •				
1)	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date		
3) 🛛 Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>11/9/2006</u> .		formal Patent Application		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 16, 2007 has been entered.
- 2. Claims 1, 4-10, 13-21 are pending. Claims 2-3, 11-12 are canceled.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 4-5, 7-10, 13-14, 16-21are rejected under 35 U.S.C. 103(a) as being unpatentable over AOSHIMA et al. (EP 1 235 107 A1) in view of SHIMADA et al. (US 2001/0036598 A1).
- a. In EP 1 235 107 A1, AOSHIMA et al. teach a photopolymerization composition that is cured with visible light or an infrared laser and is used as a recording

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layer in a negative planographic printing plate precursor. The composition comprises a polymerizable compound having at least one radical-polymerizable ethylenically unsaturated double bond, a radical polymerization initiator, a binder polymer and a compound generating heat by infrared exposure (abstract). An onium salt, such as the sulfonium salt of formula (V), is preferred as the polymerization initiator ([0023]-[0033]). According to the teachings of AOSHIMA et al, it is preferable to select a linear organic polymer as the binder, which can be dissolved or swollen with water or an alkaline solution to enable development with water or an alkaline solution ([0035]-[0036]). Polymers containing a carboxyl group in the side chain are especially preferred. The weight average molecular of the binder polymer is 5,000 or more, preferably 10,000 to 300,000 ([0039]). The binder polymer is used in an amount of 20 to 95% by weight ([0041]). The compound generating heat by infrared exposure can be a dye or pigment such as the preferable cyanine dye and black pigments ([0043]-[0052]). The composition is coated on a support in an amount of 0.5 to 5.0 g/m² to make a planographic printing plate ([0064]-[0066]) which can be imaged using a laser which radiate infrared rays having a wavelength of 760 nm to 1200 nm ([0080]). An oxygen blocking protective layer can further be disposed on the photopolymerization composition layer ([0013]).

b. AOSHIMA et a. do not teach a compound having a weight average molecular weight of 3000 or less and having at least one carboxylic acid group however SHIMADA et al. teach a planographic printing plate comprising a polymerizable photosensitive layer wherein said layer can contain organic acids for the purpose of

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improving stability, specifically phthalic acid (C₆H₄(COOH)₂: molecular weight of 166.14) ([0219]) which meets the present limitations for the compound having a molecular weight of 3000 or less. Therefore it would have been obvious to one of ordinary skill in the art to incorporate phthalic acid into the photopolymerization composition of AOSHIMA et al. in order to stabilize the photopolymerization composition.

- 5. Claims 6 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over AOSHIMA et al. (EP 1 235 107 A1) in view of SHIMADA et al. (US 2001/0036598 A1) as applied to claims 1, 4-5, 7-10, 13-14, 16-21 above, and further in view of OSHIMA (EP 1 176 467 A1).
- a. AOSHIMA et al. clearly teaches binder polymers having a carboxylic group in the side chain and having a molecular weight of 5,000 or more, specifically 10,000 to 300,000 ([0035]-[0036], [0039], [0041]) however AOSHIMA et al. do no specifically teach the binder polymer of present claims 6 and 15. It would have been obvious to use the polymeric binder of OSHIMA,

in the photopolymerizable composition of AOSHIMA et al. with reasonable expectation of improving the printing durability ([0011]-[0013], [0035]).

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Response to Arguments

6. In light of the claim amendments Applicant's arguments, filed February 16, 2007, with respect to the rejections of claims 1, 4-10, 13-21 under 35 USC 103(a) over AOSHIMA et al. (EP 1 235 107 A1) in view of ARIAS et al. (US 6,933,093B1) and further in view of OSHIMA (EP 1 176 467 A1) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, new grounds of rejection is made over AOSHIMA et al. (EP 1 235 107 A1) in view of SHIMADA et al. (US 2001/0036598 A1) and further in view of OSHIMA (EP 1 176 467 A1).

Conclusion

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barbara L. Gilliam whose telephone number is 571-272-1330. The examiner can normally be reached on Monday through Thursday, 8:00 AM 5:30 PM.
- a. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H. Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- b. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Barbara L. Gilliam Primary Examiner Art Unit 1752

bg April 26, 2007